APPENDIX J

Input: A dataset without any missing and no constant variables, X
Output: The normalized dataset, NX
Process:

```
[m n] = sizeof(X);
Initialize a matrix NX of size m by n;
For i = 1:n
        x = X(: , i);    //x is the ith column of X
        x_mean = mean of x;
        For j = 1 to m,
                x(j) = x(j) – x_mean;
        End For
        x_norm = 0;
        For j = 1 to m,
                x_norm += x(j)²;
        End For
        x_norm = sqrt(x_norm);
        For j = 1 to m,
                x(j) /= x_norm;
        End For
        NX(: , i) = x;   //ith column in NX is x
End For
```